Weekly Summary Report
USEPA Oversight, Sauget Area 2, Sauget, IL
WA No. 224-RXBF-05XX / Contract No. 68-W6-0025

Week Ending Friday February 6, 2004

This report summarizes the Remedial Action (RA) work conducted by Solutia and its contractors from February 2 through February 6, 2004. The current RA fieldwork consists of site maintenance and equipment demobilization.

Contractors Onsite

Inquip Associates Inc. (barrier wall construction contractor)
PSI (Professional Service Industries) (geotechnical testing services, subcontractor to Inquip)
URS (primary consultant for Solutia)

Work Performed This Week

Solutia Bankruptcy / Production Halt

Work at the site during the week continued with a minimal crew of Inquip operators and laborers performing site and trench maintenance activities. Additionally, work began to demobilize the Liebherr 843 hydraulic clamshell rig. The crane was tracked to the north end of Site R. Activities began to break down the rig for transportation offsite. The Liebherr 855 crane was used to assist in demobilizing the 843 rig.

Groundwater Migration Control System (GMCS)

The Groundwater Migration Control pumping system flow rate remained consistent throughout the week, at or near maximum pumping rates for each extraction well. The river elevation decreased from 380.3 ft above mean sea level (amsl) on January 30 to 379.4 ft amsl on February 6, 2004. The pumping system flow rate at the close of the week was 2225 gallons per minute (gpm), or approximately 740 gpm per extraction well.

Extraction well, EW-2, resumed pumping on February 3, after the pump inside the well was replaced. EW-2 had been out of operation for 4 days prior to the pump replacement. Backup motors for each of the extraction well pumps have been ordered for future use. Both extraction wells EW-1 and EW-3 were not pumping groundwater for approximately 24 hours between February 2 and February 3, 2004 while well EW-2 was being repaired.

Three of the four piezometers upgradient of the barrier wall (P2E, P3E, and P4E) generally showed water elevations higher than the river levels throughout the week. P1S, however, generally maintained a water level slightly lower than the river.

Table 1 shows the river and piezometer water elevations on February 6, at 16:00 PM.

TABLE 1
River and Piezometer Water Elevations – February 6, 2004 (16:00 PM)

	Elevation (ft above mean sea level)
River Level	379.4
Piezometer 1S (northern-most Pz)	378.6
Piezometer 2E	380.3
Piezometer 3E	379.0
Piezometer 4E (southern-most Pz)	379.9

Stormwater

No stormwater activities occurred during the week. Stormwater present on site remained frozen throughout the week.

Slurry Mixing

Two batches of fresh slurry were mixed during the week, refilling the slurry holding ponds. Approximately 40 tonnes of bentonite gel was used to mix slurry.

Barrier Wall Construction

No barrier wall construction activities occurred during the week.

The trench profile was not measured on any day during the week, so the open trench remains at approximately 1,300 feet in length along the barrier wall alignment from station 23+60 towards station 10+60 (please refer to Solutia's map for locations). The surface slurry in the open trench remained frozen throughout the week. No backfill activities occurred during the week. For the current trench profile and construction progress graphs, please refer to the weekly report for the week ending January 23, 2004.

Fresh bentonite slurry was pumped from the slurry holding ponds into the trench on two days during the week. Slurry testing of fresh slurry pumped to the trench was performed during the week by PSI. The slurry was tested for viscosity, density (unit weight), filtrate loss, pH and sand content. The results of the four slurry samples met the specifications.

Preliminary results for the backfill samples collected between December 10 and December 15, 2003 were reviewed for permeability analysis during the week. The permeability results ranged from 1.62×10^{-8} to 3.05×10^{-8} centimeters per second (cm/sec), exceeding the corresponding specification of 1.0×10^{-7} cm/sec